

Practitioner's Docket No.: 1372.34

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Jaroszeski et al.

Examiner: Angela Jon E.

Serial No.: 09/939,518

Art Unit: 1635

Filing Date: 08/24/2001

For: METHOD OF USING ELECTRIC
FIELDS TO FACILITATE THE
ENTRY OF MOLECULES INTO
CELLS IN VIVO

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Faxed to Technology Center 1600 at (703) 872-9306
Box Fee Amendment
Assistant Commissioner for Patents
Washington, D.C. 20231

EXHIBIT A

(37 C.F.R. § 1.121)

Dear Sir:

Pursuant to 37 C.F.R. § 1.121 amendments are marked up to show all changes relative to the previous version of the above-mentioned application on this separate document.

IN THE CLAIMS:

2. (Once Amended) The method recited in Claim 1, wherein [a] the duration of the applying step comprises a duration [in a range of 0.1 seconds to 20 minutes] of at least 100m seconds.

5. (Once Amended) The method recited in Claim 1, wherein the applying step comprises applying [the low-level electric field in a series of electric pulses] a plurality of substantially continuous low-level electric fields to the target tissue, wherein the duration of each substantially continuous low-level electric field is sufficient to effect a change in

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porosity of the cell of the target tissue sufficient to facilitate entry of a desired molecule into an interior of the cell.

5 11. (Once Amended) A system for facilitating the delivery of a desired molecule into a target tissue comprising:

[means for introducing] a molecule introducer adapted to introduce a molecule into a target tissue comprising a cell; and

10 [means] an applicator for applying a substantially continuous low-level electric field to the target tissue for a duration sufficient to effect a change in porosity of the cell of the target tissue to facilitate an entry of a desired molecule into an interior of the cell.

15 12. (Once Amended) The system recited in Claim 11, wherein the [applying means comprises an applicator adapted to deliver a field having] applicator applies the electric field comprising a duration [in a range of 01. seconds to 20 minutes] of at least 100ms.

20 15. (Once Amended) The system recited in Claim 11, wherein the [applying means comprises means for applying the low-level electric field in a series of electric pulses] applicator applies a plurality of substantially continuous low-level electric fields to the target tissue, wherein the duration of each substantially continuous low-level electric field is sufficient to effect a change in porosity of the cell of the target tissue sufficient to facilitate entry of a desired molecule into an interior of the cell.

25 18. (Once Amended) The system recited in Claim 11, wherein the [introducing means comprises an introducer] molecule introducer is selected from a group consisting of a syringe, a jet injector, an oral dosage [dose means], [means for effecting] a transdermal deliverer [delivery], [means for infusion into tissue] a tissue infuser, and [means for infusion into a blood vessel] a blood vessel infuser.

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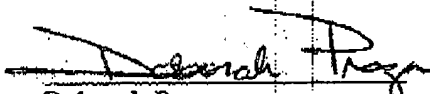
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20. (Once Amended) The system recited in Claim 11, wherein the target tissue is selected from a group consisting of skin, tumor, muscle, blood, blood vessel, brain, lymph, liver, pancreas, bone, colon, cardiac, lung, breast, testes, cornea, prostate [,colon] and intestine.

CERTIFICATE OF FACSIMILE TRANSMISSION
(37 C.F.R. 1.8)

I HEREBY CERTIFY that this Amendment A, including Exhibit A, is being transmitted by facsimile to the United States Patent and Trademark Office, Technology Center 1600, Art Unit 1635, Attn: Jon E. Angell, (703) 872-9306 on October 9, 2002.

Dated: October 9, 2002


Deborah Preza

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